

PROCESS FOR THE PREPARATION OF CEMENT COMPLEX

Publication number: KR920008773B
Publication date: 1992-10-09
Inventor: PARK SUNG-BOM (KR)
Applicant: PARK SUNG BOM (KR)
Classification:
- **International:** **C04B14/04; C04B14/02;** (IPC1-7): C04B14/04
- **European:**
Application number: KR19890017346 19891128
Priority number(s): KR19890017346 19891128

Report a data error here

Abstract of KR920008773B

A lightweight carbon fiber reinforced cement composite is produced by (1) mixing hydraulic commercial portland cement with silica powder, which is 50-200 m in average particle size, more than 90 % in silica (SiO₂) content and about 2.60-2.65 in specific gravity, (2) charging in it with PAN based carbon fiber and Pitch based carbon fiber, which are 3-20 mm long, 1.6-1.8 of specific gravity, 7,500-38,000 kgf/cm² of tensile strength, 3.5-25.0 kg/cm² of elastic coefficient, 6.5-20 [μ]m of diameter, by the volume ratio of 1.0-5.0 %, (3) changing the water/cement ratio into the range of 20-110 % using thickener additive, antifoaming agent and water reducing agent, (4) operating an autoclave hardening the above mixture at 180 \pm 5 deg.C, under 10 atm, for 3-5 hrs.

Data supplied from the **esp@cenet** database - Worldwide